

NONLINEAR EDGE-ENHANCEMENT FILTER

ABSTRACT OF THE DISCLOSURE

- 5 Methods and apparatus for digital data array edge enhancement are disclosed. A local data window containing a data sample s is selected. Minimum and maximum sample values, max and min , are located within the window, and an edge deflection value ed is defined to have a value between max and min . A diffusion quantity is then calculated to move the value of s towards max , if s is greater than ed , or towards min , if s is smaller than ed . This
- 10 approach has advantages over gradient-based edge-enhancement, including simplicity, convergence speed, and stability.

10043759-011002